

L12 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:234508 HCAPLUS
DN 141:39126
ED Entered STN: 22 Mar 2004
TI Oligomeric cyanate ester resins: a new class of thermosetting
polymers
AU **Laskoski, Matthew; Keller, Teddy M.**
CS Chemistry Division, Advanced Materials Section, Code 6127, Naval
Research Laboratory, Washington, DC, 20375, USA
SO Polymer Preprints (American Chemical Society, Division of Polymer
Chemistry) (2004), 45(1), 720-721
CODEN: ACPPAY; ISSN: 0032-3934
PB American Chemical Society, Division of Polymer Chemistry
DT Journal; (computer optical disk)
LA English
CC 37-3 (Plastics Manufacture and Processing)
AB Cyanate ester (CE) resins have received considerable attention in
the past few years due to their importance as a thermosetting resin
for use in the electronics, aerospace, and adhesive industries.
They have their own unique properties such as good strength, low
dielec. consts., radar transparency, superior metal adhesion and low
water absorption. Problems assocd. with these resins include
brittleness and processability. We have developed a series of
oligomeric cyanate ester monomers contg. multiple arom. ether
spacers between the reactive cyanate ester groups. The rigidity and
crosslinking d. of the resulting thermoset and thus the glass
transition temp. and other phys. properties of the cured resin can
be easily controlled. The ease of synthesis paired with the low
curing temp. of the resin allows for comparable thermal properties
plus excellent processability vs. com. available resins.
ST cyano terminated polyether polyketone thermosetting resin prepn
IT Polyketones
(**polycyanurate**-polyether-, fluorine-contg.; prepn. and
curing of oligomeric cyanate ester resins)
IT Polyethers, preparation
(**polycyanurate**-polyketone-, fluorine-contg.; prepn. and
curing of oligomeric cyanate ester resins)
IT **Polycyanurates**
(polyether-polyketone, fluorine-contg.; prepn. and curing of
oligomeric cyanate ester resins)
IT 506-68-3, Bromocyan
(prepn. and curing of oligomeric cyanate ester resins)
IT 69266-28-0P 704912-83-4P
(prepn. and curing of oligomeric cyanate ester resins)
IT 69254-20-2DP, cyano-terminated, oligomers 704912-84-5P
(prepn. and curing of oligomeric cyanate ester resins)
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Grenier-Loustalot, M; J Poly Sci Part A: Polym Chem 1996, V34, P2955
HCAPLUS
- (2) Grigat, E; Angew Chem Int Ed Eng 1967, V6, P206 HCAPLUS
- (3) Kinloch, A; J Mater Sci 2003, V38, P65 HCAPLUS
- (4) Reghunadhan, N; Adv Polym Sci 2001, V155, P1
- (5) Richer, S; Polym & Polym Compos 2001, V9, P431 HCAPLUS
- (6) Simon, S; J Appl Polym Sci 1993, V47, P461 HCAPLUS

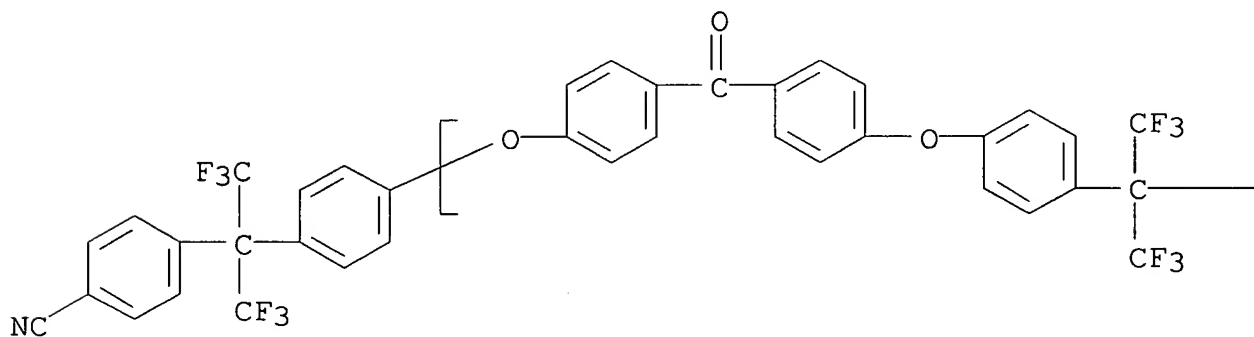
=> d 113 1-4 ide

L13 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 704912-84-5 REGISTRY
 CN Poly[oxy-1,4-phenylenecarbonyl-1,4-phenyleneoxy-1,4-phenylene[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-1,4-phenylene],
 .alpha.-[4-[1-(4-cyanophenyl)-2,2,2-trifluoromethyl-1-(trifluoromethyl)ethyl]phenyl]-.omega.-cyano-, homopolymer (9CI)
 (CA INDEX NAME)
 MF ((C28 H16 F6 O3)n C17 H8 F6 N2)x
 CI PMS
 PCT Polyamine, Polyamine formed, Polyether, Polyketone, Polyother
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation)

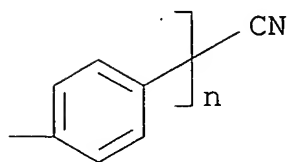
CM 1

CRN 704912-83-4
 CMF (C28 H16 F6 O3)n C17 H8 F6 N2
 CCI PMS

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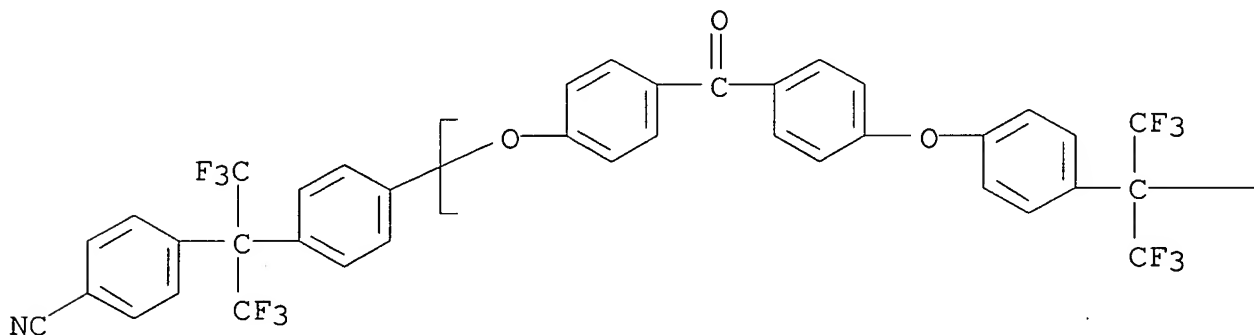
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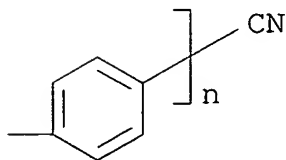
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 704912-83-4 REGISTRY
 CN Poly[oxy-1,4-phenylenecarbonyl-1,4-phenyleneoxy-1,4-phenylene[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-1,4-phenylene],
 .alpha.-[4-[1-(4-cyanophenyl)-2,2,2-trifluoromethyl-1-(trifluoromethyl)ethyl]phenyl]-.omega.-cyano- (9CI) (CA INDEX NAME)
 MF (C28 H16 F6 O3)_n C17 H8 F6 N2
 CI PMS, COM
 PCT Polyether, Polyketone
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

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PAGE 1-B



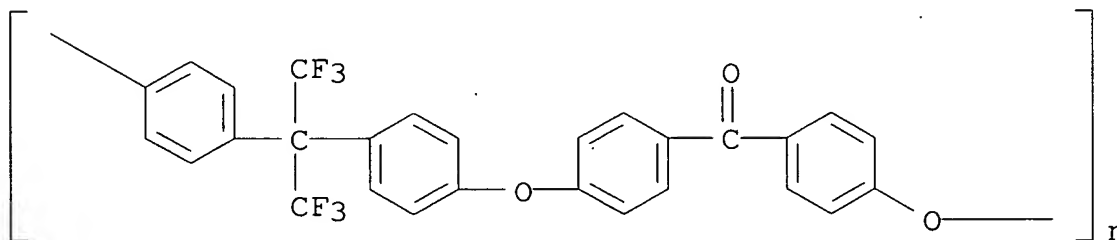
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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 69266-28-0 REGISTRY
 CN Poly[oxy-1,4-phenylene[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-1,4-phenyleneoxy-1,4-phenylenecarbonyl-1,4-phenylene] (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4,4'-Dichlorobenzophenone-hexafluorobisphenol A copolymer SRU
 CN Poly[oxy-1,4-phenylenecarbonyl-1,4-phenyleneoxy-1,4-phenylene[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]-1,4-phenylene], sru
 CN Poly[oxy-p-phenylenecarbonyl-p-phenyleneoxy-p-phenylene[trifluoro-1-(trifluoromethyl)ethylidene]-p-phenylene], sru
 DR 31694-14-1
 MF (C28 H16 F6 O3)n
 CI PMS
 PCT Polyether, Polyketone
 LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPAT2, USPATFULL
 DT.CA CAplus document type: Journal; Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation); PRP (Properties)

RELATED POLYMERS AVAILABLE WITH POLYLINK



39 REFERENCES IN FILE CA (1907 TO DATE)
 9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 39 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 69254-20-2 REGISTRY

CN Methanone, bis(4-fluorophenyl)-, polymer with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, polymer with bis(4-fluorophenyl)methanone (9CI)

OTHER NAMES:

CN 2,2-Bis(4-hydroxyphenyl)-1,1,1,3,3,3-hexafluoropropane-4,4'-difluorobenzophenone copolymer

CN 4,4'-Difluorobenzophenone-4,4'-(hexafluoroisopropylidene)diphenol copolymer

CN 4,4'-Difluorobenzophenone-hexafluorobisphenol A copolymer

CN Bisphenol AF-4,4'-difluorobenzophenone copolymer

MF (C15 H10 F6 O2 . C13 H8 F2 O)x

CI PMS

PCT Polyether, Polyether formed, Polyketone

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPAT2, USPATFULL

DT.CA CAPLUS document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: PREP (Preparation); PRP (Properties); USES (Uses)

RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); USES (Uses)

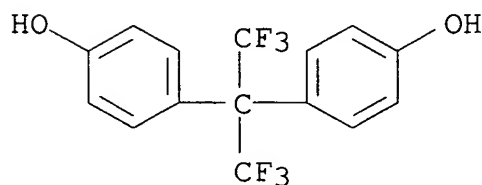
RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent)

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 1478-61-1

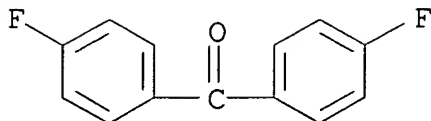
CMF C15 H10 F6 O2



CM 2

CRN 345-92-6

CMF C13 H8 F2 O



24 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
24 REFERENCES IN FILE CAPLUS (1907 TO DATE)